BEST AVAILABLE COPY

PTO/SB/08A (02-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE erwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Filing Date

ADEMARY ADDITION 1449/PTO

Complete if Known Application Number 10/810,952 03/26/2004 First Named Inventor **PLESKACH**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Art Unit (Use as many sheets as necessary) **Examiner Name** Attorney Docket Number 7162-0119 of 1 Sheet

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<u> </u>		Number-Kind Code ² (f known)		 	
12m/		^{US-} 10/657,054		Pleskach, et al.	Filed: 09/05/2003
		^{US-} 3,614,554	10/19/1971	Shield, et al.	
		US- 5,070,317	12/3/1991	Bhagat	
		US- 5,249,039	6/19/2001.	Harvey, et al.	
		^{US-} 6,094,123	7/25/2000	Roy	
		US- 6,292,084	9/18/2001	Choi, et al.	
1		US- 6,303,971	10/16/2001	Rhee	
		US- 6,445,271	9/3/2002	Johnson	
		US- 6,498,557	12/24/2002	Johnson	
am		^{US-} 6,535,098	3/18/2003	Yeo, et al.	
		US-			
	-	US-			
		US-			
		US-			
	<u> </u>	US-			. :
		US-	1		
-		US-	5		
		US-			
	-	US-			

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Ľ
			<u> </u>			┝
	 - -	•	· · 		 	ŀ
						Ţ
						l

Examiner Signature	 lma	Date Considered	7/2765

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional), \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04, \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), \(^4\) For Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. \(^3\) Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible, \(^3\) Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

4.5. Patent and Trademark Office, 0.5. DEPARTMENT OF COMMERCE

Systemate for form 1449/PTO

MAY 2 0 2005

Sheet 11

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Col	mplete if Known	
Application Number	10/810,952	
Filing Date	Mar. 26, 2004	
First Named Inventor ·	PLESKACH	
Art Unit	2832	
Examiner Name	MAI, Anh T.	
Attorney Docket Number	7162-0119	

				DOCUMENTS	
Examiner Initials*	Cite No.	Document Number Number-Kind Code ^{2 (f Innom)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/m		^{US-} 3,581,243	05/25/1971	ALFORD	
J		^{US-} 5,714,112	02/03/1998	HAZEYAMA, et al.	
		^{US-} 3,681,716	08/01/1972	CHIRON, et al.	
		US- 4,638,271	01/20/1987	JECKO, et al.	
m		^{US-} 4,967,171	10/30/1990	BAN, et al	
,-		US-			
		US-			
		US-			
		US-	· ·		
		US-			
		US-			
		US-	<u> </u>		
		US-			•
		US-	1		· · · · · ·
		US-			
-		US-	1		
		US-			<u> </u>
-		US-	<u> </u>	<u> </u>	
	_	US-	 		

		FORE	IGN PATENT DOCU	JMENTS		
· Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
Λ		Country Code ³ Number ⁴ 'Kind Code ³ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁰
(in)		JP 2000307362	11/02/2000	MITSUBISHI ELEC		
		JP 10/190321	07/21/1998	ŅEC CORP		
		JP 56-123102	09/28/1981	MITSUBISHI ELEC		
		JP 05-211402	08/20/1983	FURUKAWA ELEC		
11		JP 07-015218	01/17/1995	FUJI ELEC		
WW		JP 08-154006	06/11/1996	MURATA MFG		

Examiner Signature Date Considered 7/27/25

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation inct in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/S8/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

approver Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork

PADS obstitute for form 1449/PTO

MAY 2 0 2005

Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Co	mplete if Known
Application Number	10/810,952
Filing Date	Mar. 26, 2004
First Named Inventor	PLESKACH
Art Unit	2832
Examiner Name	MAI, Anh T.
Attorney Docket Number	7162-0119

			U. S. PATENT D		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	 		
		US-	 		
		US-	 	· · · · · · · · · · · · · · · · · · ·	
		US-			
		US-	1		
·		US-			
		US-			•
-		US-		·····	
		US-			
		US-			
	-	US-		1	

Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages Or Relevant Figures Appear	١,
		.l		
WO 01-01453 A2	01/04/2001	SUN MICROSYS		
EP 1 108 533	06/20/2001	KONICA CORP		
EP 0 754 660 A1	01/22/1997	TDK CORP		
EP 1 089 374 A2	04/04/2001	KABUSHIKI KAISH		
JP 08 307117	11/22/1996	TASIE		Ĺ
	EP 1 108 533 EP 0 754 660 A1 EP 1 089 374 A2	EP 1 108 533 06/20/2001 EP 0 754 660 A1 01/22/1997 EP 1 089 374 A2 04/04/2001	EP 1 108 533 06/20/2001 KONICA CORP EP 0 754 660 A1 01/22/1997 TDK CORP EP 1 089 374 A2 04/04/2001 KABUSHIKI KAISH	EP 1 108 533 06/20/2001 KONICA CORP EP 0 754 660 A1 01/22/1997 TDK CORP EP 1 089 374 A2 04/04/2001 KABUSHIKI KAISH

	Λ	/	
Examiner Signature	andrum	Date Considered	7/27/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

	le for form 1449/PTO				of information unless it contains a valid OMB control number. Complete if Known
				Application Number	10/810,952
INF	ORMATION	DIS	CLOSURE	Filing Date	Mar. 26, 2004
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	PLESKACH
	(Use as many she			Art Unit	2832
	(USO BS MEMY SHE	1612 63 11	eressary)	Examiner Name	MAI, Anh T.
Sheet	3	of	3	Attorney Docket Number	7162-0119

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
am/	_	ITOH, T.; et al: "Metamaterials Structures, Phenomena and Applications" IEEE Transactions on Microwave Theory and Techniques; April, 2005;	
_		[Online] Retrieved from the Internet: URL:www.mtt.org/publications/ Transactions/CFP_Metamaterials.pdf>	
am		KIZILTAS, G.; et al: "Metamaterial design via the density method" IEEE Antennas and Propagation Society Int'l Symposium 2002, vol. 1, 16 June 2002 pp 748-751, Piscataway	
am		SALAHUN, E.; et al: "Ferromagnetic composite-based and magnetically-tunable microwave devices" IEEE MTT-S Microwave Symposium Digest, Vol. 2, 2 Jun 2002 pp1185-1188	
		·	
Examiner Signature		Date Considered 7/27/25	

| Signature | Wor Considered UMM 114 1107 *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Attorney Docket Number 7162-0119

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** Filing Date INFORMATION DISCLOSURE First Named Inventor **PLESKACH** STATEMENT BY APPLICANT Art Unit (Use as many sheets as necessary) Examiner Name

of 1 1

Examiner

			U. S. PATE	NT DOCUM	ENTS		
Examiner Initiats*	Cite No.1	Document Number Number-Kind Code ^{2 (f Izzaes)}	Publication Dat MM-DD-YYYY	8	Name of Patentee or plicant of Cited Document	Pages, Cotumns, Lines, Whe Relevant Passages or Releva Figures Appear	re int
Im		^{US-} 5,781,091	07/14/1998	Krone,	et al.		
		^{US-} 6,054,914	04/25/2000	Abel, e	t al.		
and		US- 6,198,374	03/06/2001	Abel			
		US					
		US-					-
		US-					
		US-					
		US-					
		US-					
	<u> </u>	US-					
		US-				•	
		US-					
	_	US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
			FOREIGN PA	TENT DOOL	MENTS		
Examiner	Cite			Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Γ_
Initials*	No.			Date M-DD-YYYY	Applicant of Cited Document		T⁰
							<u> </u>
							_
						<u></u>	┡
							▙
	<u> </u>					·	┡
	<u> </u>		<u> </u>			ļ	<u> </u>
	<u>L</u> .				<u></u>	<u> </u>	Щ.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. Applicant is to place a check mark here if English language Translation is attached.

Date

Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.